

| L Number | Hits | Search Text | DB | Time stamp |
|-------------|------|---|--------------------|---------------------|
| - | 0 | hierarch\$4 adj node adj data\$base | USPAT; EPO; JPO | 2003/12/10 09:58 |
| - | 2 | hierarch\$4 near node near data\$base | USPAT; EPO; JPO | 2002/08/15 09:19 |
| - | 311 | hierarch\$4 near node and data\$base | USPAT; EPO; JPO | 2003/02/06 11:17 |
| - | 10 | hierarch\$4 near node and data\$base and link near table | USPAT; EPO; JPO | 2002/08/15 09:20 |
| - | 5 | hierarch\$4 near node and data\$base and link near table and node near data | USPAT; EPO; JPO | 2002/08/15 09:21 |
| - | 5 | hierarch\$4 near node and data\$base and link near table and node near data and relationship near data | USPAT; EPO; JPO | 2002/08/15 09:22 |
| - | 0 | hierarch\$4 near node and data\$base and link near table and node near data and relationship near data and effective | USPAT; EPO; JPO | 2002/08/15 09:22 |
| - | 1 | hierarch\$4 near node and data\$base and link near table and node near data and relationship near data and period | USPAT; EPO; JPO | 2002/08/15 09:22 |
| - | 0 | hierarch\$4 near node and data\$base and effective near period near data | USPAT; EPO; JPO | 2002/08/15 09:23 |
| - | 1 | hierarch\$4 near node and data\$base and effective near period | USPAT; EPO; JPO | 2002/08/15 10:59 |
| - | 10 | hierarch\$4 near node and data\$base and fixed near length | USPAT; EPO; JPO | 2002/08/15 09:24 |
| - | 0 | hierarch\$4 near node and data\$base and fixed near length near column | USPAT; EPO; JPO | 2002/08/15 09:24 |
| - | 7 | hierarch\$4 near node and data\$base and fixed near length and column | USPAT; EPO; JPO | 2002/08/15 09:24 |
| - | 5 | hierarch\$4 near node and data\$base and fixed near length and column and variable near length | USPAT; EPO; JPO | 2002/08/15 10:53 |
| - | 0 | hierarch\$4 near node and data\$base and fixed near length and column and variable near length near column | USPAT; EPO; JPO | 2002/08/15 09:25 |
| - | 2 | hierarch\$4 near node and data\$base and fixed near length and column and variable near length and constant | USPAT; EPO; JPO | 2002/08/15 12:27 |
| - | 0 | hierarch\$4 near node and data\$base and fixed near length and column and variable near length and constant near (length size) | USPAT; EPO; JPO | 2002/08/15 09:26 |
| - | 5 | hierarch\$4 near node and data\$base and link adj table | USPAT; EPO; JPO | 2002/08/15 09:49 |
| - | 12 | 707/\$.ccls. and effective near period | USPAT; EPO; JPO | 2002/08/15 11:00 |
| - | 9 | 707/\$.ccls. and effective near period and data\$base | USPAT; EPO; JPO | 2002/08/15 11:00 |
| - | 6 | 707/\$.ccls. and effective near period and data\$base and fixed | USPAT; EPO; JPO | 2002/08/15 11:01 |
| - | 1 | 707/\$.ccls. and effective near period and data\$base and fixed and variable | USPAT; EPO; JPO | 2002/08/15 11:01 |
| - | 3 | cycle adj control adj table | USPAT; EPO; JPO | 2002/08/15 12:59 |
| - | 5 | cycle near control adj table | USPAT; EPO; JPO | 2002/08/15 12:29 |
| - | 6 | cycle near control near table | USPAT; EPO; JPO | 2002/08/15 12:30 |
| - | 41 | 707/\$.ccls. and cycle near control | USPAT; EPO; JPO | 2002/08/15 12:30 |
| - | 11 | 707/\$.ccls. and cycle near control and data\$base and table | USPAT; EPO; JPO | 2002/08/15 12:33 |
| - | 0 | 707/\$.ccls. and cycle near control near data\$base and table | USPAT; EPO; JPO | 2002/08/15 12:31 |
| - | 1 | 707/\$.ccls. and cycle near control and control near table and data\$base and table | USPAT; EPO; JPO | 2002/08/15 12:59 |

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|---|------|---|--------------------|---------------------|
| - | 5 | 707/\$.ccls. and cycle near control and data\$base and table and tim\$3 and interval | USPAT; EPO; JPO | 2002/08/15 12:35 |
| - | 11 | 707/\$.ccls. and cycle near control and data\$base and table and tim\$3 nearinterval | USPAT; EPO; JPO | 2002/08/15 12:35 |
| - | 5 | 707/\$.ccls. and cycle near control and data\$base and table and tim\$3 near interval | USPAT; EPO; JPO | 2002/08/15 12:36 |
| - | 12 | 707/\$.ccls. and cycle near control and tim\$3 near interval | USPAT; EPO; JPO | 2002/08/15 12:37 |
| - | 4 | 707/\$.ccls. and cycle near control and tim\$3 near interval and execut\$4 near tim\$4 | USPAT; EPO; JPO | 2002/08/15 12:43 |
| - | 0 | 707/\$.ccls. and cycle near control and tim\$3 near interval and execut\$4 near (timer timing) | USPAT; EPO; JPO | 2002/08/15 12:44 |
| - | 1 | 707/\$.ccls. and cycle near control and tim\$3 near interval and execut\$4 near (interval cycle timer timing) | USPAT; EPO; JPO | 2002/08/15 12:46 |
| - | 12 | cycle near control and execut\$3 near time near interval | USPAT; EPO; JPO | 2002/08/15 12:47 |
| - | 0 | 707/\$.ccls. and cycle near control and execut\$3 near time near interval | USPAT; EPO; JPO | 2002/08/15 12:47 |
| - | 0 | 707/\$.ccls. and cycle near control and execut\$3 near interval | USPAT; EPO; JPO | 2002/08/15 12:47 |
| - | 9 | 707/\$.ccls. and cycle near control and execut\$3 and time near interval | USPAT; EPO; JPO | 2002/08/15 12:48 |
| - | 0 | 707/\$.ccls. and execution near interval and control near cycle | USPAT; EPO; JPO | 2002/08/15 13:00 |
| - | 1 | 707/\$.ccls. and execution near interval and control near table | USPAT; EPO; JPO | 2002/08/15 13:00 |
| - | 0 | hierarch\$4 near node and data\$base and cycle near control and control near table and execution near time\$3 | USPAT; EPO; JPO | 2002/08/15 13:17 |
| - | 0 | hierarch\$4 near node and data\$base and cycle near control and control near table | USPAT; EPO; JPO | 2002/08/15 13:17 |
| - | 4439 | hierarch\$4 near node and data\$base and (cycle near control) (control near table) and execut\$ | USPAT; EPO; JPO | 2002/08/15 13:18 |
| - | 86 | hierarch\$4 near node and data\$base and (cycle near control) (control near table) and execut\$ near (timer timing interval) | USPAT; EPO; JPO | 2002/08/15 13:20 |
| - | 86 | 707/\$.ccls. and hierarch\$4 near node and data\$base and (cycle near control) (control near table) and execut\$ near (timer timing interval) | USPAT; EPO; JPO | 2002/08/15 13:22 |
| - | 6 | 707/\$.ccls. and (hierarch\$4 near node and data\$base and (cycle near control) (control near table) and execut\$ near (timer timing interval)) | USPAT; EPO; JPO | 2002/08/15 13:23 |
| - | 153 | hierarchical with node same data\$base. | USPAT; EPO; JPO | 2003/02/06 10:56 |
| - | 0 | hierarchical with node same data\$base and hierarchical with link near table | USPAT; EPO; JPO | 2003/02/06 10:57 |
| - | 3 | hierarchical with node same data\$base and hierarchical and link near table | USPAT; EPO; JPO | 2003/07/28 12:58 |
| - | 30 | hierarch\$4 near node and data\$base and effective with (time period interval) | USPAT; EPO; JPO | 2003/02/06 11:28 |
| - | 1 | hierarch\$4 near node and data\$base and effective with (time period interval) and link near4 table | USPAT; EPO; JPO | 2003/02/06 11:19 |
| - | 2 | hierarch\$4 near node and data\$base and effective with (time period interval) and link with table | USPAT; EPO; JPO | 2003/02/06 11:23 |
| - | 18 | hierarch\$4 with node and data\$base and effective with (time period interval) and link with table | USPAT; EPO; JPO | 2003/02/06 11:24 |
| - | 9 | hierarchical with node and data\$base and effective with (time period interval) and link with table | USPAT; EPO; JPO | 2003/02/06 11:24 |

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| - | 0 | hierarch\$4 near node and data\$base and effective with (time period interval) and @as<>"international business machines" | USPAT; EPO; JPO | 2003/02/06 11:29 |
| - | 0 | hierarch\$4 near node and data\$base and effective with (time period interval) and @as="international business machines" | USPAT; EPO; JPO | 2003/02/06 11:30 |
| - | 9 | hierarch\$4 near node and data\$base and effective with (time period interval) and "international business machines".as. | USPAT; EPO; JPO | 2003/02/06 11:31 |
| - | 30 | hierarch\$4 near node and data\$base and effective with (time period interval) | USPAT; EPO; JPO | 2003/02/06 11:40 |
| - | 9 | hierarch\$4 near node and data\$base and effective with (time period interval) and "international business machine".as. | USPAT; EPO; JPO | 2003/07/28 12:57 |
| - | 9 | hierarch\$4 near node and data\$base and effective with (time period interval) and "international business machine" | USPAT; EPO; JPO | 2003/02/06 11:34 |
| - | 8 | hierarch\$4 near node and data\$base and effective with (time period interval) and "international business machines corporation".as. | USPAT; EPO; JPO | 2003/02/06 11:34 |
| - | 10 | hierarch\$4 near node and data\$base and effective with (time period interval) and international not machine.as. | USPAT; EPO; JPO | 2003/02/06 11:45 |
| - | 21 | hierarch\$4 near node and data\$base and effective with (time period interval) not "international business".as. | USPAT; EPO; JPO | 2003/02/06 11:46 |
| - | 21 | hierarch\$4 near node and data\$base and effective with (time period interval) not "international business machine".as. | USPAT; EPO; JPO | 2003/02/06 11:46 |
| - | 16 | hierarch\$4 near node and data\$base and effective with (time period interval) not "international business machine".as. and link\$4 | USPAT; EPO; JPO | 2003/02/06 11:46 |
| - | 15 | hierarch\$4 near node and data\$base and effective with (time period interval) not "international business machine".as. and link\$4 and table | USPAT; EPO; JPO | 2003/02/06 11:47 |
| - | 1 | hierarch\$4 near node and data\$base and effective with (time period interval) not "international business machine".as. and link\$4 with table | USPAT; EPO; JPO | 2003/02/06 11:48 |
| - | 0 | hierarch\$4 near node and data\$base and effective near4 (time period interval) not "international business machine".as. and link\$4 with table | USPAT; EPO; JPO | 2003/02/06 11:48 |
| - | 4 | 707/\$.ccls. and hierarch\$4 near node and data\$base and effective near4 (time period interval) not "international business machine".as. | USPAT; EPO; JPO | 2003/02/06 11:49 |
| - | 13 | hierarch\$4 near node and data\$base and effective near4 (time period interval) not "international business machine".as. | USPAT; EPO; JPO | 2003/02/06 12:20 |
| - | 10 | hierarch\$4 near node and data\$base and start adj (time period interval) and end adj (time period interval) not "international business machine".as. | USPAT; EPO; JPO | 2003/02/06 12:22 |
| - | 10 | hierarch\$4 near node and data\$base and start adj (time period interval) and end adj (time period interval) not "international business machine".as. and table | USPAT; EPO; JPO | 2003/02/06 12:23 |
| - | 8 | hierarch\$4 near node and data\$base and start adj (time period interval) and end adj (time period interval) not "international business machine".as. and table and link | USPAT; EPO; JPO | 2003/02/06 12:23 |

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| - | 0 | hierarch\$4 near node and data\$base and start adj (time period interval) and end adj (time period interval) not "international business machine".as. and link adj table | USPAT; EPO; JPO | 2003/02/06 12:23 |
| - | 0 | hierarch\$4 near node and data\$base and start adj (time period interval) and end adj (time period interval) not "international business machine".as. and link near table | USPAT; EPO; JPO | 2003/02/06 12:24 |
| - | 0 | hierarch\$4 near node and data\$base and start adj (time period interval) and end adj (time period interval) not "international business machine".as. and link near4 table | USPAT; EPO; JPO | 2003/02/06 12:24 |
| - | 6 | hierarch\$4 near node and data\$base and start adj (time period interval) and end adj (time period interval) not "international business machine".as. and link with table | USPAT; EPO; JPO | 2003/02/06 12:26 |
| - | 0 | hierarch\$4 near node and data\$base and start adj (time period interval) and end adj (time period interval) not "international business machine".as. and link with table and stor\$4 with start | USPAT; EPO; JPO | 2003/02/06 12:27 |
| - | 0 | hierarch\$4 near node and data\$base and start adj (time period interval) and end adj (time period interval) not "international business machine".as. and link with table and stor\$4 same start | USPAT; EPO; JPO | 2003/02/06 12:27 |
| - | 6 | hierarch\$4 near node and data\$base and start adj (time period interval) and end adj (time period interval) not "international business machine".as. and link with table and stor\$4 same (time period interval) | USPAT; EPO; JPO | 2003/02/10 11:15 |
| - | 6 | hierarch\$4 near node and data\$base and start adj (time period interval) and end adj (time period interval) not "international business machine".as. and link with table and stor\$4 same (time period interval) and fix\$4 | USPAT; EPO; JPO | 2003/02/06 12:35 |
| - | 6 | hierarch\$4 near node and data\$base and start adj (time period interval) and end adj (time period interval) not "international business machine".as. and link with table and stor\$4 same (time period interval) and ((fix\$4 with length) constant) | USPAT; EPO; JPO | 2003/02/06 12:38 |
| - | 0 | hierarch\$4 near node and data\$base and start adj (time period interval) and end adj (time period interval) not "international business machine".as. and link with table and stor\$4 same (time period interval) and ((fix\$4 with length) constant with (size length)) | USPAT; EPO; JPO | 2003/02/06 12:39 |
| - | 0 | hierarch\$4 near node and data\$base and start adj (time period interval) and end adj (time period interval) not "international business machine".as. and link with table and stor\$4 same (time period interval) and ((fix\$4 same length) constant same (size length)) | USPAT; EPO; JPO | 2003/02/06 12:39 |
| - | 1 | 5630125.pn. | USPAT; EPO; JPO | 2003/02/07 11:50 |
| - | 188 | fixed adj length with column | USPAT; EPO; JPO | 2003/02/07 14:22 |
| - | 38 | fixed adj length with column and variable adj length with column | USPAT; EPO; JPO | 2003/02/07 14:23 |
| - | 23 | table and fixed adj length with column and variable adj length with column | USPAT; EPO; JPO | 2003/02/07 14:24 |

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| - | 0 | table and fixed adj length with column same (constant fix) near4 size and variable adj length with column | USPAT; EPO; JPO | 2003/02/07 14:25 |
| - | 0 | table and fixed adj length with column same (constant fix) and variable adj length with column | USPAT; EPO; JPO | 2003/02/07 14:25 |
| - | 23 | table and fixed adj length with column and variable adj length with column | USPAT; EPO; JPO | 2003/02/07 14:25 |
| - | 10 | table and link and fixed adj length with column and variable adj length with column | USPAT; EPO; JPO | 2003/02/07 14:26 |
| - | 1 | table and link and fixed adj length with column and variable adj length with column and hierarch\$4 with data\$base | USPAT; EPO; JPO | 2003/02/07 14:26 |
| - | 27 | first adj application with rate and second adj application with rate | USPAT; EPO; JPO | 2003/02/10 11:17 |
| - | 208 | first near4 application with rate and second near4 application with rate | USPAT; EPO; JPO | 2003/02/10 11:18 |
| - | 17025 | first near4 application and second near4 application | USPAT; EPO; JPO | 2003/02/10 11:19 |
| - | 506 | first near4 application adj program and second near4 application adj program | USPAT; EPO; JPO | 2003/02/10 11:22 |
| - | 72 | 707/\$.ccls. and first near4 application adj program and second near4 application adj program | USPAT; EPO; JPO | 2003/02/10 11:23 |
| - | 0 | 707/\$.ccls. and first near4 application adj program with rate and second near4 application adj program with rate and (communication telecommunication) | USPAT; EPO; JPO | 2003/02/10 11:26 |
| - | 0 | 707/\$.ccls. and first near4 application adj program and second near4 application adj program and rate near4 scheme and (communication telecommunication) | USPAT; EPO; JPO | 2003/02/10 11:27 |
| - | 11 | 707/\$.ccls. and first near4 application adj program and second near4 application adj program and rate and (communication telecommunication) | USPAT; EPO; JPO | 2003/02/10 11:27 |
| - | 0 | first near4 application adj program and second near4 application adj program and rate near4 scheme and (communication telecommunication) | USPAT; EPO; JPO | 2003/02/10 11:28 |
| - | 4 | first near4 application adj program and second near4 application adj program and rate same scheme and (communication telecommunication) | USPAT; EPO; JPO | 2003/07/28 16:16 |
| - | 160 | rate adj scheme | USPAT; EPO; JPO | 2003/02/10 11:50 |
| - | 1 | rate adj scheme and first adj application | USPAT; EPO; JPO | 2003/02/10 11:50 |
| - | 160 | "rate scheme" | USPAT; EPO; JPO | 2003/02/10 11:50 |
| - | 1 | "rate scheme" and first adj application | USPAT; EPO; JPO | 2003/02/10 11:54 |
| - | 1 | "rate scheme" and first adj application and second adj application | USPAT; EPO; JPO | 2003/02/10 11:51 |
| - | 5 | "rate scheme" and first near4 application | USPAT; EPO; JPO | 2003/02/10 11:54 |
| - | 2 | "rate scheme" and first near4 application and second near4 application | USPAT; EPO; JPO | 2003/02/10 11:54 |
| - | 0 | hierarchical with node same data\$base and hierarchical and link near table and table near node | USPAT; EPO; JPO | 2003/07/28 13:00 |
| - | 1 | hierarchical with node same data\$base and hierarchical and link near table and table with node | USPAT; EPO; JPO | 2003/07/28 13:00 |
| - | 1 | hierarchical with node same data\$base and hierarchical and link near table and table same node | USPAT; EPO; JPO | 2003/07/28 13:00 |

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| - | 0 | first near4 application adj program and second near4 application adj program and rate same scheme same mone\$4 and (communication telecommunication) | USPAT; EPO; JPO | 2003/07/28 16:17 |
| - | 4 | first near4 application adj program and second near4 application adj program and rate same scheme | USPAT; EPO; JPO | 2003/07/28 16:16 |
| - | 0 | first near4 application adj program and second near4 application adj program and rate same scheme same (mone\$4 price cost) | USPAT; EPO; JPO | 2003/07/28 16:18 |
| - | 52 | application adj program and rate same scheme same (mone\$4 price cost) | USPAT; EPO; JPO | 2003/07/28 16:18 |
| - | 6297 | first adj application and second application and application adj program and rate same scheme same (mone\$4 price cost) | USPAT; EPO; JPO | 2003/07/28 16:20 |
| - | 0 | first adj application adj program and second adj application adj program and rate same scheme same (mone\$4 price cost) | USPAT; EPO; JPO | 2003/07/28 16:21 |
| - | 2 | first adj application and second adj application and rate same scheme same (mone\$4 price cost) | USPAT; EPO; JPO | 2003/07/28 16:23 |
| - | 0 | first adj application and second adj application and rate with scheme with mone\$4 | USPAT; EPO; JPO | 2003/07/28 16:23 |
| - | 0 | mone\$4 adj rate adj scheme | USPAT; EPO; JPO | 2003/07/28 16:23 |
| - | 1 | mone\$4 with rate with scheme | USPAT; EPO; JPO | 2003/07/28 16:24 |
| - | 0 | hierarch\$4 adj node adj data\$base | USPAT; EPO; JPO | 2003/12/10 09:59 |
| - | 166 | hierarch\$4 with node with data\$base | USPAT; EPO; JPO | 2003/12/10 09:59 |
| - | 21 | hierarch\$4 with link adj table | USPAT; EPO; JPO | 2003/12/10 10:00 |
| - | 5 | hierarch\$4 with link adj table with identif\$4 | USPAT; EPO; JPO | 2003/12/10 10:00 |
| - | 0 | (hierarch\$4 with node with data\$base) and (hierarch\$4 with link adj table with identif\$4) | USPAT; EPO; JPO | 2003/12/10 10:00 |
| - | 4 | hierarch\$4 with link adj table with identif\$4 and data\$base | USPAT; EPO; JPO | 2003/12/10 10:05 |
| - | 8 | hierarch\$4 with link adj table and identif\$4 with (application program) and data\$base | USPAT; EPO; JPO | 2003/12/10 10:06 |
| - | 8 | hierarch\$4 with "link table" and identif\$4 with (application program) and data\$base | USPAT; EPO; JPO | 2003/12/10 10:07 |
| - | 8 | hierarch\$4 with "link table" and identif\$4 with (application program) | USPAT; EPO; JPO | 2003/12/10 10:10 |
| - | 1 | hierarch\$4 with "link table" with identif\$4 with (application program) | USPAT; EPO; JPO | 2003/12/10 10:11 |
| - | 0 | hierarch\$4 with "link table" with identif\$4 near4 (application program) | USPAT; EPO; JPO | 2003/12/10 10:11 |
| - | 2 | hierarch\$4 and "link table" with identif\$4 near4 (application program) | USPAT; EPO; JPO | 2003/12/10 10:13 |
| - | 1 | hierarch\$4 and "link table" with identif\$4 near4 (application program) and application with program | USPAT; EPO; JPO | 2003/12/10 10:14 |
| - | 1 | hierarch\$4 and "link table" with identif\$4 near4 (application program) and application adj program | USPAT; EPO; JPO | 2003/12/10 10:14 |
| - | 0 | hierarch\$4 and "link table" with identif\$4 near4 (application program) and application adj program and first with link | USPAT; EPO; JPO | 2003/12/10 10:15 |
| - | 0 | "link table" with identif\$4 near4 (application program) and application adj program and first with link | USPAT; EPO; JPO | 2003/12/10 10:15 |

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| - | 2 | "link table" with identif\$4 near4 (application program) and application adj program | USPAT; EPO; JPO | 2003/12/10 10:16 |
| - | 2803 | "link table" and "link table" with identif\$4 near4 (application program) and application adj program | USPAT; EPO; JPO | 2003/12/10 10:18 |
| - | 2 | "link table" with identif\$4 near4 (application program) and application adj program | USPAT; EPO; JPO | 2003/12/10 10:17 |
| - | 2803 | "link table" and "link table" with identif\$4 near4 (application program) and application adj program | USPAT; EPO; JPO | 2003/12/10 10:18 |
| - | 2803 | "link table" and ("link table" with identif\$4 near4 (application program) and application adj program) | USPAT; EPO; JPO | 2003/12/10 10:18 |
| - | 778 | "link table" | USPAT; EPO; JPO | 2003/12/10 10:18 |
| - | 2 | "link table" with identif\$4 near4 (application program) and application adj program and "link table" | USPAT; EPO; JPO | 2003/12/10 10:20 |
| - | 778 | "link table" | USPAT; EPO; JPO | 2003/12/10 10:21 |
| - | 72 | "link table" and first adj link | USPAT; EPO; JPO | 2003/12/10 10:21 |
| - | 50 | "link table" and first adj link and second adj link | USPAT; EPO; JPO | 2003/12/10 10:21 |
| - | 13 | "link table" and first adj link and second adj link and identif\$4 near4(application program) | USPAT; EPO; JPO | 2003/12/10 10:21 |
| - | 13 | "link table" and first adj link and second adj link and identif\$4 near4 (application program) | USPAT; EPO; JPO | 2003/12/10 10:21 |
| - | 9 | "link table" and first adj link and second adj link and identif\$4 near4 (application program) and data\$base | USPAT; EPO; JPO | 2003/12/10 10:21 |
| - | 9 | "link table" and first adj link and second adj link and identif\$4 near4 (application program) and data\$base and hierarch\$5 | USPAT; EPO; JPO | 2003/12/10 10:29 |
| - | 849 | link with identif\$4 with (application program) | USPAT; EPO; JPO | 2003/12/10 10:29 |
| - | 20 | link with identif\$4 with (application program) and link adj table | USPAT; EPO; JPO | 2003/12/10 11:14 |
| - | 14 | link near4 identif\$4 with (application program) and link adj table | USPAT; EPO; JPO | 2003/12/10 10:42 |
| - | 12 | link with identif\$4 with (application program) and link adj table and hierarch\$4 | USPAT; EPO; JPO | 2003/12/10 10:57 |
| - | 12 | link with identif\$4 with (application program) and link adj table and (hierarch\$4 tee) | USPAT; EPO; JPO | 2003/12/10 10:57 |
| - | 15 | link with identif\$4 with (application program) and link adj table and (hierarch\$4 tree) | USPAT; EPO; JPO | 2003/12/10 10:57 |
| - | 13 | link with identif\$4 with (application program) and link adj table and first with link and second with link | USPAT; EPO; JPO | 2003/12/10 10:58 |
| - | 3 | link with identif\$4 with (application program) and link adj table and first with link with (application program) and second with link | USPAT; EPO; JPO | 2003/12/10 10:58 |
| - | 3 | link with identif\$4 with (application program) and link adj table and first with link with (application program) and second with link with (application program) | USPAT; EPO; JPO | 2003/12/10 11:01 |
| - | 0 | link with identif\$4 with (application program) and link adj table and first adj link with (application program) and second adj link with (application program) | USPAT; EPO; JPO | 2003/12/10 11:02 |

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|---|---------|---|---|---------------------|
| - | 12 | link with identif\$4 with (application program) and link adj table and hierarch\$4 | USPAT; EPO; JPO | 2003/12/10 11:02 |
| - | 8 | link with identif\$4 with (application program) and link adj table and hierarch\$4 and link adj id | USPAT; EPO; JPO | 2003/12/10 11:03 |
| - | 0 | link with identif\$4 with (application program) and link adj table and hierarch\$4 adj link | USPAT; EPO; JPO | 2003/12/10 11:03 |
| - | 9 | link with identif\$4 with (application program) and link adj table and hierarch\$4 with link | USPAT; EPO; JPO | 2003/12/10 11:03 |
| - | 7 | link with identif\$4 with (application program) and link adj table and hierarch\$4 with link and link adj id | USPAT; EPO; JPO | 2003/12/10 11:05 |
| - | 9 | link with (id identif\$4) with (application program) and link adj table and hierarch\$4 near4 link and link adj id | USPAT; EPO; JPO | 2003/12/10 11:09 |
| - | 0 | link with (identif\$4) adj (application program) and link adj table and hierarch\$4 near4 link and link adj id | USPAT; EPO; JPO | 2003/12/10 11:10 |
| - | 1 | link with (identif\$4) near4 (application program) and link adj table and hierarch\$4 near4 link and link adj id | USPAT; EPO; JPO | 2003/12/10 11:10 |
| - | 21 | hierarch\$4 with link adj table | USPAT; EPO; JPO | 2003/12/10 11:14 |
| - | 5 | hierarch\$4 with link adj table with identif\$4 | USPAT; EPO; JPO | 2003/12/10 11:15 |
| - | 1 | hierarch\$4 with link adj table with identif\$4 with (application program) | USPAT; EPO; JPO | 2003/12/10 11:16 |
| - | 2 | hierarch\$4 with link and link adj table with identif\$4 with (application program) | USPAT; EPO; JPO | 2003/12/10 11:17 |
| - | 64 | hierarch\$4 with (link table) and link adj table and (link identif\$4) with (application program) | USPAT; EPO; JPO | 2003/12/10 11:18 |
| - | 6 | hierarch\$4 adj (link table) and link adj table and (link identif\$4) with (application program) | USPAT; EPO; JPO | 2003/12/10 11:22 |
| - | 2 | hierarch\$4 adj (link table) and application adj program and link adj table | USPAT; EPO; JPO | 2003/12/10 11:23 |
| - | 1094917 | (period interval limit) with time | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 14:56 |
| - | 89 | (period interval limit) with time with hierarchical with structure | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 14:56 |
| - | 1 | (period interval limit) with time with defin\$4 with hierarchical with structure and effective with period | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 14:57 |
| - | 1 | (period interval limit) with time with defin\$4 with hierarchical with structure and effective with (interval period data) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 14:58 |
| - | 1 | (period interval limit) with time with defin\$4 with hierarchical with structure and effective with (interval time period data) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 14:58 |
| - | 6 | (period interval limit) with time with defin\$4 with hierarchical with structure | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:03 |
| - | 1642 | (period interval limit) with time with ((defin\$4 with hierarchical with structure) (link\$4 with data)) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:05 |

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| - | 1638 | (period interval limit) with time with (link\$4 with data) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:06 |
| - | 149 | (period interval limit) with time with (link\$4 with data) and effective with time | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:06 |
| - | 548 | (period interval limit) with time with (link\$4 with data) and effective adjtime | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:06 |
| - | 12 | (period interval limit) with time with (link\$4 with data) and effective adj time | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:06 |
| - | 5 | (period interval limit) with time with (link\$4 with data) and effective adj period | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:09 |
| - | 18 | effective with period with link\$4 with data | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:14 |
| - | 0 | effective with period with link\$4 with data and effective with period with defin\$4 with hierarchical with structure | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:13 |
| - | 0 | effective with period with link\$4 with data and effective with period with defin\$4 with structure | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:13 |
| - | 1 | effective with period with link\$4 with data and hierarchical with structure | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:14 |
| - | 1 | effective with period with link\$4 with data and hierarchical with link\$4 | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:15 |
| - | 1 | effective with period with link\$4 with data and hierarchical | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:15 |
| - | 13 | effective with (interval time period) with link\$4 with data and hierarchical | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:16 |
| - | 2 | effective with (interval time period) with link\$4 with data and hierarchical with link | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:16 |
| - | 2 | effective with (interval time period) with link\$4 with data and hierarchical with link\$4 | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:16 |
| - | 5 | effective with (interval time period) with link\$4 with data and hierarchical with (structure link\$4) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:21 |
| - | 1 | effective adj (interval window time period) with link\$4 with data and hierarchical with (structure link\$4) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:23 |
| - | 712 | (interval window time period) with link\$4 with data and hierarchical with (structure link\$4) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:23 |

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| - | 721 | (interval window time limit period) with link\$4 with data and hierarchical with (structure link\$4) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:24 |
| - | 26 | (interval window time limit period) adj time with link\$4 with data and hierarchical with (structure link\$4) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:24 |
| - | 14 | (interval window limit period) adj time with link\$4 with data and hierarchical with (structure link\$4) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:24 |
| - | 14 | ((interval window limit period) adj time) with link\$4 with data and hierarchical with (structure link\$4) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:35 |
| - | 490 | data near link\$4 with period | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 16:10 |
| - | 0 | data near link\$4 with effective adj period | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 15:36 |
| - | 220 | data near link\$4 with time near period | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 16:11 |
| - | 23 | data near link\$4 with time near period and hierarchical | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/12 16:11 |
| - | 8 | data near link\$4 with time near period and hierarchical with structure | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/13 10:25 |
| - | 1 | data near link\$4 with time near period and hierarchical with structure and control\$4 with table | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/13 10:26 |
| - | 0 | data near link\$4 with time near period and hierarchical with structure and control\$4 with table with cycle | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/05/13 10:26 |